

=> D 1-2 BIB AB

L1 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1970:42375 CAPLUS
DN 72:42375
TI Fertilizer based on ammonium phosphates and urea
IN Cluzel, Jean
PA Entreprise Miniere et Chimique
SO Fr., 3 pp.
CODEN: FRXXAK
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1558585		19690228	FR	19680118 <--
AB	The fertilizer is prepared by the neutralization of H3PO4 in the presence of NH3 and of urea and H2NCO2NH4 obtained by the usual method of urea preparation. This neutralization method minimizes the decomposition of urea and the formation of biuret which are disadvantages of previous neutralization methods utilizing large excesses of NH3+. Thus, 2.9 tons H3PO4 (50% P2O5) and 3.9 tons of a solution comprising urea 52, NH3+ (6.2% as H2NCO2NH4) 17, CO2 8, and water 23% were added during each hr to a reactor heated at 130° and 3 atmospheric. The M NH3-to-H3PO4 ratio was 1.75. The vapor (NH3, CO3, and H2O) from the reactor was continuously removed and introduced into the 2nd stage of urea synthesis. The neutralized solution was passed into a cascade evaporator heated with saturated steam at 3.5 atmospheric. The moisture was separated by countercurrent flow of 5000 m3 NH3 gas/hr at 125°. The fertilizer was obtained as a paste at 140° and was granulated. It contained total N 29.1, N in the form of urea 18.7, P2O5 29.3, biuret 0.2, and H2O 1.0%.				

L1 ANSWER 2 OF 2 INPADOC COPYRIGHT 2004 EPO on STN

LEVEL 1
AN 266324 INPADOC
DT Patent; Utility Model
PIT FRA DEMANDE/BREV./CERT.ADD./CERT.UTIL. (1RE PUBL.)
PI **FR 1558585** A **19690228**
AI FR 1968-136449 A 19680118
PRAI FR 1968-136449 A 19680118

DERWENT-ACC-NO: 1967-06214H

DERWENT-WEEK: 196800

PA

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TITLE: Mixed fertilizer contng ammonium
phosphate and urea

PATENT-ASSIGNEE: OFFN[ERAP]

PRIORITY-DATA: 1968FR-0136449 (January 18, 1968)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
FR 1558585 A		N/A
000	N/A	

ABSTRACTED-PUB-NO: FR 1558585A

BASIC-ABSTRACT:

Process for producing fertilizer based on ammonium phosphate and uarea and opt. contng. K salts or other fertilizer materials, pesticides etc., in which the ammonium phosphate is produced by neutralizing phosphoric acid to pH 6-7 with an ammoniacal soln. of urea at a pressure of 0.5-4 bars and a temp. of 120-130 deg.C.

The method avoids difficulties due to the instability of diammonium phosphate, hydrolysis of urea to CO₂ and NH₃, and dimension of urea to biuret.

TITLE-TERMS: MIX FERTILISER AMMONIUM PHOSPHATE UREA

DERWENT-CLASS: C00

CPI-CODES: C05-A01A; C05-B02A; C05-C01; C10-A13B; C12-N09;
C12-N10;

CHEMICAL-CODES:

Chemical Indexing M0 *01*

Fragmentation Code

A119 C500 A100 A111 A940 A950 A980 C720 C730 B115

B215 B701 B713 L431 L432 M620 N010 M431 P113 P111

P112 R003 M900